

Digital Images Instructional Activity Outline
Marissa Espina

1. Identification of the Class

- Subject: Physics
- Grade: 11

2. What are the Virginia Standards of Learning that apply to your instructional activity?

PH. 5 The student will investigate and understand the interrelationships among mass, distance, force, and time through mathematical and experimental processes.

Key concepts include

- a) linear motion
- b) uniform circular motion
- c) projectile motion
- d) Newton's Laws of motion
- e) gravitation
- f) planetary motion
- g) work, power and energy

3. Describe the instructional activity in 3-4 sentences. Please include the type of digital images project that you chose to use in your activity. You are more than welcome to include a lengthier description.

My digital images project is a visual narrative. It is a video/slideshow that shows students how to draw a free body diagram. Free body diagrams are important because they are usually the first step in a multiple part, short answer problem. Identifying the forces at play in a problem properly can go a long way towards beginning to solve it. This visual narrative would not serve as the primary lesson on how to draw a free body diagram, but rather as a reference or review for students who are still confused after the first lesson.

4. How would you assess student learning? You aren't required to create an assessment measure, but I do want you to think about this element of instruction. Three to four sentences will sufficiently answer this question.

I would assess student learning by how they draw their free body diagrams on their homework assignments, quizzes, tests and lab reports. I could see what common mistakes they seem to be making and even add to the visual narrative to point out the errors and fix them. I could also give a free body diagram quiz.

5. Please provide reference links to any pictures that you did not create yourself. A bulleted list, either in this document or within your actual project, will suffice.

I took all the pictures in my visual narrative.